

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P970305

Luminaire Tested: **NAV-SB6B-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-727-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24811.1 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

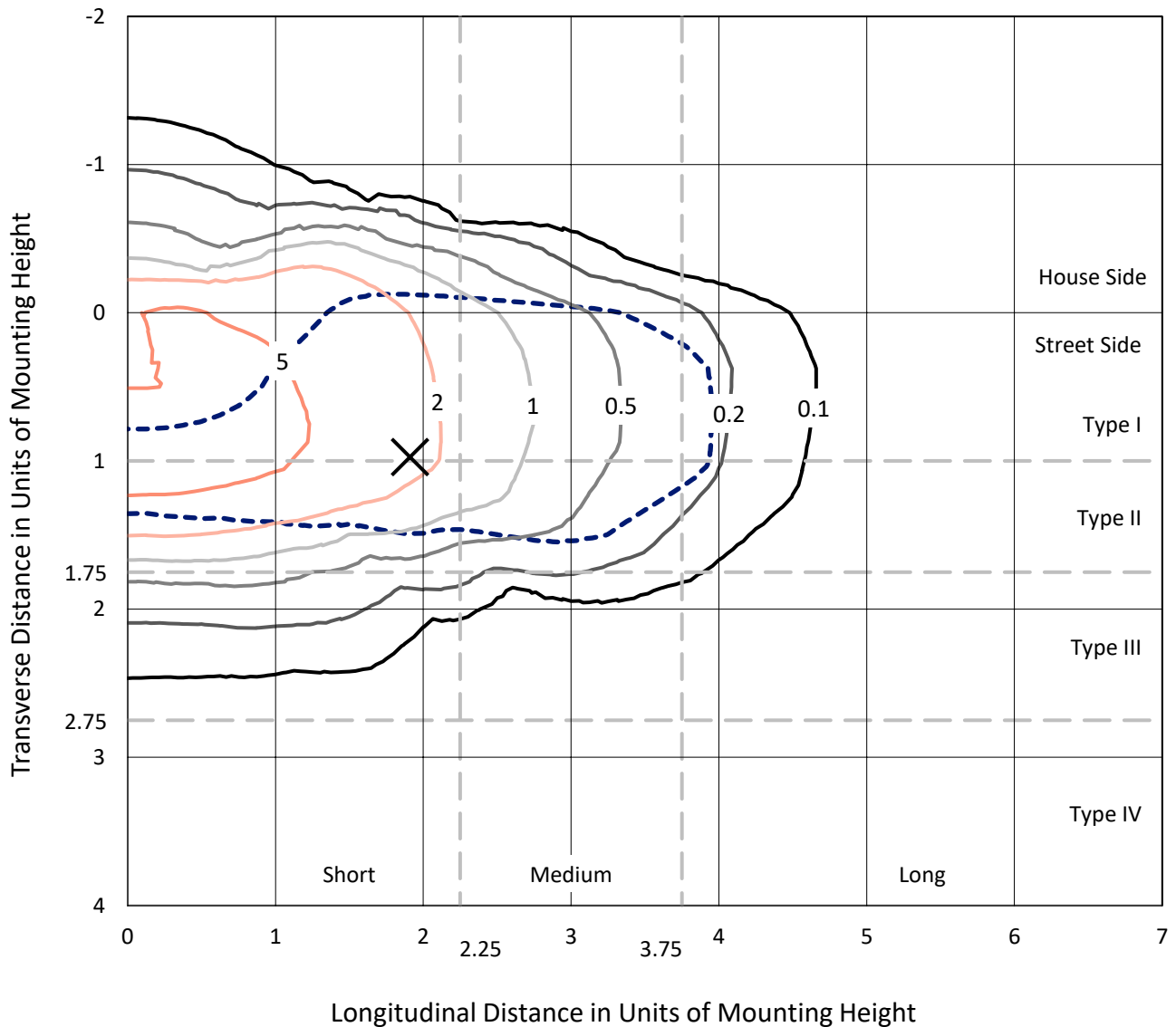
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

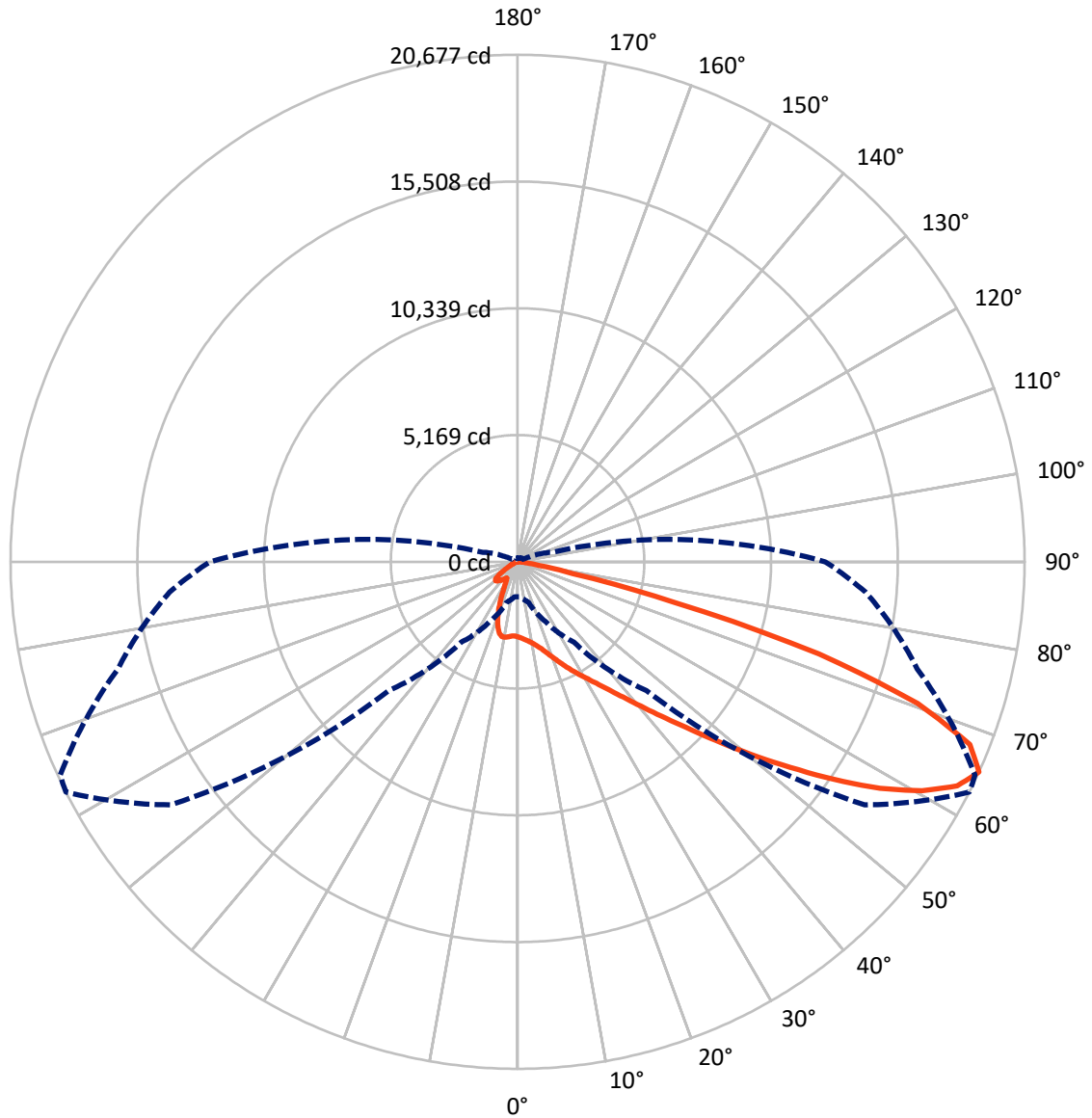
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3647.0	0.0	3647.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	21164.1	0.0	21164.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	24811.1	0.0	24811.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.5	1.2
10°-20°	800.5	3.2
20°-30°	1393.9	5.6
30°-40°	2512.4	10.1
40°-50°	4982.8	20.1
50°-60°	6787.5	27.4
60°-70°	5417.7	21.8
70°-80°	2451.6	9.9
80°-90°	176.2	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24811.1	100.0
0°-180°	24811.1	100.0

Coefficient of Utilization



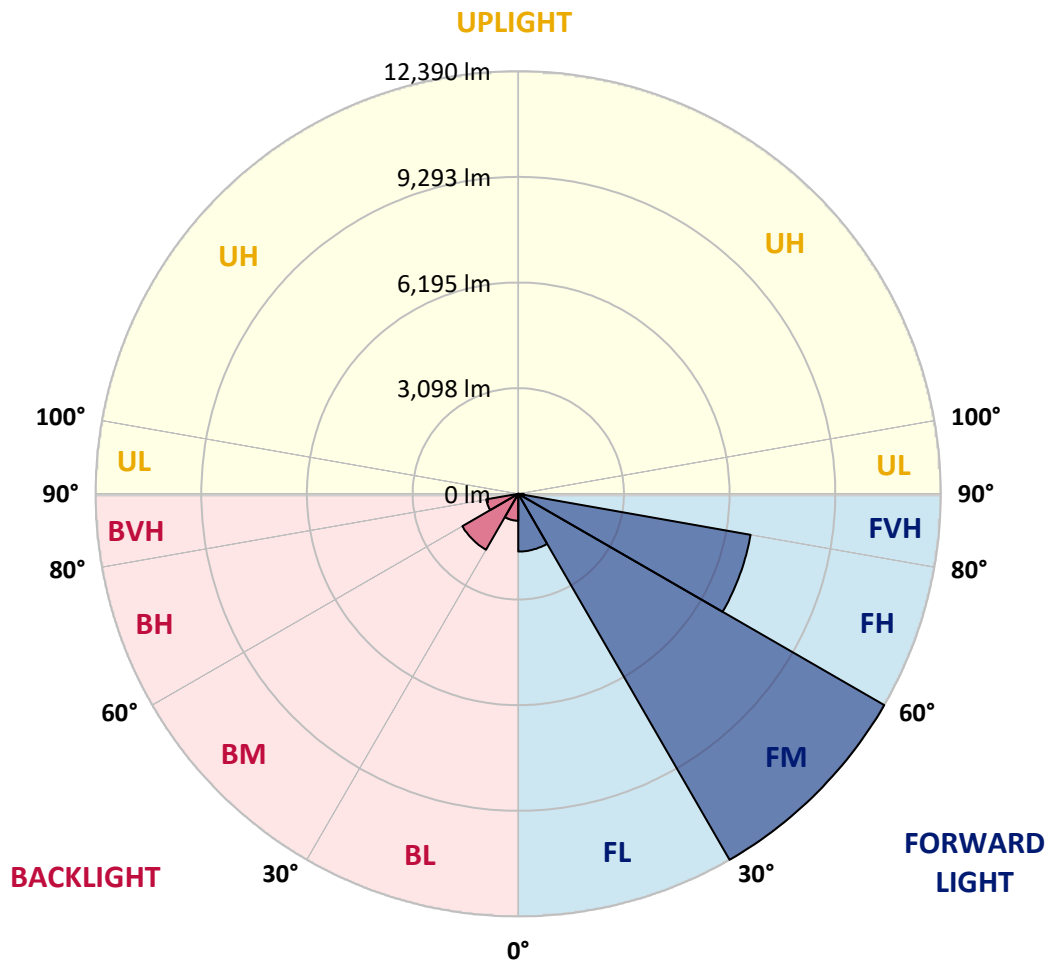
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1693.7	6.8			
FM (30°-60°)	12390.1	49.9			
FH (60°-80°)	6917.2	27.9			G3/7500
FVH (80°-90°)	163.2	0.7			G2/225
BL (0°-30°)	789.3	3.2	B2/1000		
BM (30°-60°)	1892.6	7.6	B2/2500		
BH (60°-80°)	952.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	13.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2
2.5°	3133.8	3125.3	3137.2	3132.2	3128.7	3121.9	3118.5	3115.1	3108.2	3103.1	3082.7
5°	3142.3	3137.2	3149.2	3159.5	3169.7	3180.0	3185.1	3191.8	3185.1	3171.5	3151.0
7.5°	3070.7	3067.3	3092.9	3123.6	3169.7	3209.0	3251.6	3275.5	3277.2	3272.1	3250.0
10°	3065.6	3057.1	3082.7	3120.2	3180.0	3250.0	3325.0	3376.2	3383.0	3405.3	3381.4
12.5°	3145.8	3137.2	3173.1	3214.1	3275.5	3348.9	3441.1	3512.8	3523.0	3553.8	3536.7
15°	3280.6	3268.7	3309.6	3362.6	3441.1	3524.8	3622.0	3686.9	3695.4	3732.9	3702.3
17.5°	3437.6	3425.8	3473.5	3529.9	3615.2	3729.6	3842.2	3913.9	3924.1	3948.0	3891.7
20°	3639.1	3623.7	3661.3	3712.4	3803.0	3939.5	4074.4	4176.8	4175.0	4175.0	4082.9
22.5°	3873.0	3849.1	3881.5	3922.5	4007.7	4173.4	4352.6	4473.7	4473.7	4426.0	4274.0
25°	4123.9	4100.0	4135.8	4173.4	4248.4	4436.2	4646.1	4796.4	4803.2	4721.3	4478.8
27.5°	4437.9	4407.2	4434.5	4478.8	4523.2	4714.5	4963.7	5137.7	5141.2	5014.8	4673.5
30°	5042.2	4955.2	4869.8	4822.0	4842.4	5031.9	5298.2	5491.0	5508.1	5334.0	4885.2
32.5°	6148.3	6131.1	5830.7	5438.1	5233.3	5373.3	5672.0	5904.1	5914.4	5690.8	5160.0
35°	7867.1	7846.6	7363.5	6616.0	5948.5	5830.7	6126.0	6400.8	6394.1	6141.4	5516.7
37.5°	9918.7	9900.0	9263.3	8263.0	7182.6	6522.1	6711.5	6999.9	7042.7	6711.5	5977.5
40°	11671.8	11601.8	11198.9	10234.5	8821.3	7669.0	7544.5	7735.7	7780.1	7387.4	6563.0
42.5°	12999.7	12939.9	12735.1	12132.6	10804.6	9365.7	8525.9	8599.3	8648.8	8177.8	7235.5
45°	13687.5	13673.9	13755.8	13699.5	12825.6	11448.1	9929.0	9623.4	9642.3	9053.3	7998.5
47.5°	13784.8	13778.0	14151.9	14681.0	14563.2	13796.8	11729.8	10900.3	10833.6	10041.6	8828.0
50°	13211.3	13197.7	13914.6	14906.3	15723.9	15769.9	13774.7	12339.2	12192.4	11064.1	9693.4
52.5°	11379.9	11376.5	12554.2	14204.8	16131.9	17497.4	15795.6	13919.7	13673.9	12146.2	10608.3
55°	8756.4	8819.5	10169.6	12120.6	15387.6	18328.6	17610.0	15674.4	15297.2	13235.2	11451.5
57.5°	6202.9	6295.0	7629.8	9367.5	13079.9	17837.0	18837.2	17432.5	17026.3	14320.8	12306.7
60°	3331.9	3413.8	4750.3	6824.1	9731.0	16003.8	19484.2	18958.5	18574.4	15351.8	13078.2
62.5°	1985.1	2012.4	2565.5	4405.4	6581.7	12226.5	19209.3	20120.9	19805.0	16217.1	13749.0
65°	1425.3	1430.4	1708.6	2690.1	3995.9	7428.4	17282.3	20677.3	20579.9	16869.2	14245.8
67.5°	1200.0	1196.5	1312.6	1787.1	2722.5	3721.1	13245.5	19890.4	20303.5	17282.3	14527.3
70°	1029.3	1034.3	1171.0	1309.2	2046.5	2106.3	6585.2	17318.1	18198.9	17391.5	14510.3
72.5°	766.4	783.5	909.8	1193.1	1544.8	1449.1	2273.6	12841.0	14433.4	16386.2	13757.6
75°	541.1	549.6	640.1	1003.7	1152.2	1054.8	1160.7	6638.1	8679.6	12562.7	11260.3
77.5°	416.5	431.8	484.7	701.5	1135.1	740.8	710.0	2297.4	3529.9	7588.8	7720.3
80°	225.3	252.7	349.9	507.0	797.1	524.0	351.6	914.9	1196.5	3548.7	2976.8
82.5°	116.0	129.8	244.1	365.3	454.1	457.5	174.1	380.7	493.3	1095.8	408.0
85°	46.1	56.4	163.9	201.4	233.8	225.3	78.5	153.6	177.5	303.8	124.6
87.5°	10.2	17.1	59.8	46.1	44.4	47.8	18.8	35.9	34.1	35.9	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2
2.5°	3080.9	3074.1	3055.3	3034.8	3010.9	2997.3	2988.8	2987.1	2975.1	2966.6	2975.1
5°	3132.2	3125.3	3089.5	3046.8	3000.7	2964.9	2930.8	2900.0	2855.6	2847.1	2843.7
7.5°	3234.6	3215.8	3157.7	3099.7	3012.7	2908.5	2782.3	2637.1	2507.5	2468.2	2449.3
10°	3360.9	3335.2	3261.9	3159.5	2966.6	2683.2	2377.7	2094.4	1869.1	1805.8	1782.0
12.5°	3504.3	3482.0	3384.8	3195.3	2773.6	2259.9	1792.2	1440.6	1222.1	1167.5	1152.2
15°	3674.9	3642.5	3507.7	3140.7	2428.9	1717.2	1230.7	1022.4	943.9	933.7	923.4
17.5°	3855.8	3803.0	3616.9	2944.4	1964.6	1220.5	950.8	891.0	856.9	846.6	841.5
20°	4021.5	3953.1	3681.8	2647.4	1467.9	950.8	851.8	812.5	781.8	769.8	763.0
22.5°	4187.0	4089.7	3681.8	2242.9	1101.0	843.2	781.8	745.9	710.0	694.7	686.1
25°	4359.4	4229.7	3616.9	1792.2	885.9	773.3	715.1	675.9	645.2	626.5	619.6
27.5°	4526.7	4347.4	3468.4	1365.5	788.6	711.8	653.7	616.2	587.1	573.5	573.5
30°	4685.4	4463.6	3260.1	1036.1	725.4	652.0	597.4	565.0	536.0	522.3	524.0
32.5°	4900.5	4610.3	3038.3	850.0	670.8	595.7	546.2	515.5	489.8	479.6	479.6
35°	5199.2	4827.1	2847.1	834.7	624.7	549.6	500.1	471.1	445.5	437.0	437.0
37.5°	5622.5	5177.0	2746.4	937.1	587.1	508.6	462.6	431.8	408.0	401.1	399.4
40°	6144.8	5651.5	2801.0	1039.5	561.6	472.8	428.4	397.7	377.2	368.7	367.0
42.5°	6764.4	6237.0	3103.1	1118.0	544.5	442.1	396.0	361.8	348.2	344.8	344.8
45°	7476.1	6880.5	3565.7	1201.6	517.2	413.1	363.6	337.9	327.7	326.1	324.3
47.5°	8285.3	7587.2	4101.6	1305.7	489.8	385.7	337.9	320.9	312.3	308.9	308.9
50°	9087.4	8298.9	4653.0	1363.8	467.7	360.2	317.4	303.8	297.0	295.3	295.3
52.5°	9927.3	9031.2	5098.5	1309.2	449.0	339.7	300.4	290.2	283.3	281.7	281.7
55°	10727.9	9623.4	5175.3	1111.2	411.3	319.2	281.7	276.5	267.9	267.9	266.3
57.5°	11417.4	9920.5	4632.5	815.9	373.8	288.4	262.9	257.8	250.9	249.2	247.5
60°	12050.6	9835.1	3575.9	549.6	332.8	257.8	238.9	235.5	228.7	220.2	218.5
62.5°	12407.4	9459.6	2446.0	358.4	291.9	225.3	211.7	209.9	194.5	177.5	174.1
65°	12542.2	8688.1	1525.9	261.2	244.1	192.9	182.7	179.3	157.0	138.3	136.5
67.5°	12424.4	7418.1	769.8	206.5	192.9	160.4	150.2	150.2	134.9	117.8	116.0
70°	11953.3	5561.0	324.3	165.5	148.5	122.9	122.9	129.8	114.4	95.6	93.9
72.5°	10930.9	3741.6	172.4	126.3	110.9	87.0	100.8	105.8	90.5	71.6	71.6
75°	8689.7	2282.2	119.5	93.9	70.0	61.4	76.8	80.3	61.4	47.8	46.1
77.5°	5943.4	1310.9	80.3	59.8	44.4	35.9	52.9	49.5	32.4	22.1	23.9
80°	2609.9	546.2	46.1	27.3	17.1	13.6	18.8	13.6	10.2	6.9	6.9
82.5°	305.6	128.0	17.1	10.2	6.9	3.4	1.7	0.0	0.0	0.0	0.0
85°	63.1	15.4	8.5	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)